

Title (en)
CERAMIC HONEYCOMB STRUCTURE

Title (de)
KERAMIKWABENSTRUKTUR

Title (fr)
STRUCTURE CÉRAMIQUE EN NID D'ABEILLES

Publication
EP 3275853 B1 20200422 (EN)

Application
EP 16768630 A 20160317

Priority
• JP 2015061350 A 20150324
• JP 2016058528 W 20160317

Abstract (en)
[origin: US2017304762A1] A ceramic honeycomb structure having pluralities of flow paths partitioned by porous cell walls, (a) the cell walls having porosity of 50-63%; and (b) in a pore diameter distribution in the cell walls measured by mercury porosimetry, (i) pore diameters at cumulative pore volumes corresponding to particular percentages of the total pore volume being within specific ranges and having specific relationships; (ii) the difference between a logarithm of the pore diameter at a cumulative pore volume corresponding to 20% of the total pore volume and a logarithm of the pore diameter at 80% being 0.39 or less; and (iii) the volume of pores of more than 100 µm being 0.03 cm³/g or less.

IPC 8 full level
B01D 46/24 (2006.01); **B01D 39/20** (2006.01); **B01D 46/00** (2006.01); **B01J 35/10** (2006.01); **C04B 35/195** (2006.01); **C04B 38/00** (2006.01); **C04B 38/06** (2006.01); **F01N 3/022** (2006.01); **C04B 111/00** (2006.01)

CPC (source: EP KR US)
B01D 39/20 (2013.01 - KR); **B01D 46/2429** (2013.01 - EP US); **B01D 46/24491** (2021.08 - EP KR US); **B01D 46/24492** (2021.08 - EP KR US); **B01D 46/2498** (2021.08 - EP KR); **B01J 35/56** (2024.01 - KR); **B01J 35/63** (2024.01 - KR US); **B01J 35/64** (2024.01 - KR US); **C04B 35/195** (2013.01 - EP US); **C04B 38/0006** (2013.01 - KR); **C04B 38/0009** (2013.01 - EP US); **C04B 38/0051** (2013.01 - KR); **F01N 3/022** (2013.01 - EP KR US); **B01D 46/2498** (2021.08 - US); **B01D 2275/30** (2013.01 - KR US); **B01J 35/60** (2024.01 - US); **C04B 2111/00793** (2013.01 - EP US); **C04B 2235/3217** (2013.01 - EP US); **C04B 2235/3218** (2013.01 - EP US); **C04B 2235/3418** (2013.01 - EP US); **C04B 2235/349** (2013.01 - EP US); **C04B 2235/5296** (2013.01 - EP US); **C04B 2235/5436** (2013.01 - EP US); **C04B 2235/5463** (2013.01 - EP US); **C04B 2235/6562** (2013.01 - EP US); **C04B 2235/6565** (2013.01 - EP US); **C04B 2235/6567** (2013.01 - EP US); **C04B 2235/72** (2013.01 - EP US)

C-Set (source: EP US)
1. **C04B 38/0009 + C04B 35/195 + C04B 38/0054 + C04B 38/0074 + C04B 38/0655**
2. **C04B 38/0009 + C04B 35/195 + C04B 38/0054 + C04B 38/0074 + C04B 38/067**

Cited by
EP3275541A4; US10399074B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2017304762 A1 20171026; US 9968879 B2 20180515; CN 107250084 A 20171013; CN 107250084 B 20201009; EP 3275853 A1 20180131; EP 3275853 A4 20181107; EP 3275853 B1 20200422; JP 6004151 B1 20161005; JP WO2016152727 A1 20170427; KR 102441764 B1 20220907; KR 20170130362 A 20171128; WO 2016152727 A1 20160929

DOCDB simple family (application)
US 201615516545 A 20160317; CN 201680011394 A 20160317; EP 16768630 A 20160317; JP 2016058528 W 20160317; JP 2016539339 A 20160317; KR 20177022302 A 20160317